REPLACEMENT PARTS LIST

FOR

OSCILLOSCOPE
MODEL 1805

MANUFACTURED BY
THE HICKOK ELECTRICAL INSTRUMENT COMPANY
10514 Dupont Avenue,
Cleveland 8, Ohio

GUARANTEE

a. Each unit of each item and each part thereof is guaranteed by the Contractor against all defects in material and/or workmanship. Each unit of each item and each part thereof is guaranteed by the Contractor against damage resulting from improper application by the Contractor of any component in the design or fabrication of the equipment. This guarantee extends for a period of one year from the date of installation or use, provided that this period shall not exceed 2 years from the date of delivery.

b. Upon notice in writing the Contractor shall promptly repair or replace all defective or damaged units or parts f.o.b. any point within the continental United States (this means the forty-eight contiguous states and the District of Columbia) as designated by the Government, at no expense to the Government.

c. The Contractor may elect to have any replaced unit or part returned to his plant at his expense. If, upon examination of the unit or part, it can be shown to the satisfaction of the Government that the unit or part is not defective or damaged within the meaning of this guarantee, the Contractor may bill the Government for the cost of repair or replacement, including transportation costs.

d. This guarantee shall exclude electron tubes, batteries, natural rubber and material normally consumed in operation unless such excepted items fail as a result of improper application by the Contractor, in which case the guarantee shall be equally applicable to these items; provided that the Contractor shall guarantee such excepted items to the extent of the guarantee received by the Contractor from his supplier.

e. If 20% or more of the total quantity of any part or component to which the above guarantee applies, but not less than two of any such part or component furnished under the contract, fail in normal service, that fact shall be conclusive evidence that the particular part or component or the item or part design, is unsuitable for the purpose intended. The Contractor, upon notice of this fact, shall replace or correct the item or part design in a manner satisfactory to the Government in all items and parts, without any cost to the Government, unless the use of such part, component or design was required by the Government.

f. This guarantee period shall not include any period of time the unit or part fails to perform satisfactorily due to any such defect and any unit part or component repaired or replaced by the Contractor pursuant to this guarantee shall itself be guaranteed as specified in (a) hereof.

ERRATA SHEET

REPLACEMENT PARTS LIST

OSCILLOSCOPE 1805

Effective Date: August 1, 1961

REPLACEMENT PARTS LIST - 1805 OSCILLOSCOPE

Page Number	Description
4	Add "C430" "Same as C103" between C429 and C501.
5	Add "C509" "Same as C235" and "C510" "Same as C210" between C508 and C511.
8	Change "DS103" to "DS102". Add "DS201" "Same as DS101" between DS102 and DS501. Change the value of L106 from "0.5-1" to ".3-.5". Change the value of L202 from "1 μH" to "1MH".
9	Change the description of R138 from "NOT USED" to "Resistor, fixed, composition, 330K ± 10%, 1/2 watt". Change the quantity of R120 from "13" to "14". Change the quantity of R134 from "32" to "31". Add the number 1 in the Qty. column for R138. Change the quantity of R139 from "3" to "2".
10	Change the quantity of R214 from "1" to "2".
11	Change Line 27 "RS242" to "R242".
14	Add "R455" "(Approx. 10K) selected at factory for proper sweep length" between R454 and R456. Add "R459" "(approx. 10K) selected at factory as calibration resistor for R458" between R458 and R460. Add "R461" "(approx. 6K) selected at factory as calibration resistor for R460" between R460 and R462. Add "R463" "(approx. 4K) calibration resistor for R462" between R462 and R464.
15	Change the description of R512 from "same as R511" to "part of R511".
16	Change the description of R539 from "same as R822" to "Same as R538".
19	Delete "R751" "same as R137". Delete "R752" "Same as R221".
20	Change the type of V101 from "7733" to "12BY7A, Special". Add "R775" "Same as R137" after R774. Add "R776" "Same as R221" after R775.
21	Change the type of V503 from "DJ8" to "6DJ8".

LIST OF MANUFACTURERS

NO.	NAME AND ADDRESS
1.	Allen-Bradley Co. 136 W. Greenfield Ave. Milwaukee, Wisc.
2.	Amperite Co., Inc. 561 Broadway New York, N. Y.
3.	Amperex Electronic Corp. Box 418, 230 Duffy Ave. Hicksville, N. Y.
4.	Beckman Inst. Inc. Helipot Division 2500 Fullerton Rd. Fullerton, Calif.
5.	CBS Electronics 100 Endicott St. Danvers, Mass.
6.	Centralab Div. of Globe Union 900 E. Keefe Ave. Milwaukee, Wisc.
7.	Clarostat Mfg. Co. Inc. Washington Street Dover, N. H.
8.	Cornell-Dubilier Electric Corp. 333 Hamilton Blvd. South Plainfield, N. J.
9.	The Daven Co. 530 W. Mt. Pleasant Ave. Livingston, N. J.
10.	Electra Mfg. Co. 4051 Broadway Kansas City, Mo.
11.	Electronic Tube Corp. 1200 E. Mermaid La. Philadelphia, Pa.
12.	Erie Resistor Corp. 644 West 12th Street Erie, Pa.
13.	General Electric Co. Receiving Tube Dept. 316 East 9th Street Owensboro, Ky.
14.	Hickok Electrical Inst. Co. 10555 Dupont Ave. Cleveland, Ohio
15.	Micamold Electronics Mfg. Co. 65 Governeur Street Newark, N. J.
16.	Radio Corp. of America 415 S. Fifth Street Harrison, N. J.
17.	Radio Recptor Co., Inc. 240 Wythe Ave. Brooklyn, N. Y.
18.	Sprague Electric Co. 91 Marshall St. N. Adams, Mass.
19.	Stackpole Carbon Co. St. Mary's, Pa.
20.	Sylvania Electric Prod. Inc. 63 Second Ave. Waltham, Mass.
21.	Texas Instruments Inc. 6000 Lemmon Ave. Dallas, Texas
22.	Ward Leonard Elec. Co. 3100 N. Cicero Ave. Chicago, Ill.
23.	Westinghouse Elec. Corp. P.O. Box 284 Elmira, N. Y.

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
C101	CAPACITOR, Fixed, ceramic, 4700 UUF . . . . . +100 -20% 500V	12	ED-0.0047	17
C102	Same as C101			
C103	CAPACITOR, Fixed, ceramic, 0.001 UF GMV	12	ED-0.001	26
C104	CAPACITOR, Fixed, electrolytic, 2 x 20 UF . . . . . +100 -10% 450V	18	SP-CE32F200R	1
C105	CAPACITOR, Fixed, electrolytic, 3 section . . . . . 10, 20, 40 UF +50 -10% 475V	18	TVL3842.6	1
C106	CAPACITOR, Fixed, paper, 0.1 UF ±20% 400V	18	109P10404	1
C109	CAPACITOR, Fixed, electrolytic, 4 x 75 UF 150V . .	18	5Z934-913	1
C111	CAPACITOR, Fixed, ceramic, 0.001 UF ±10% 500V . .	12	X5U0102K	2
C112	Same as C111			
C113	Same as C101			
C116	Same as C103			
C117	Same as C101			
C118	CAPACITOR, Fixed, ceramic, 150 UUF ±20% 500V . .	12	GP2A150±30UUF	8
C119	Same as C103			
C120	Same as C103			
C121	CAPACITOR, Fixed, paper, 0.022 UF ±20% 600V . .	18	109P22306	1
C122	Same as C101			
C123	CAPACITOR, Variable, ceramic, 8-50 UUF	12	U2P034R	2
C124	Same as C123			
C125	CAPACITOR, Variable, ceramic, 0.7-3.0 UUF 500V	12	535-17	57
C126	Same as C101			
C127	Same as C118			
C128	Same as C125			
C129	Same as C103			
C130	Same as C118			
C131	Same as C103			
C132	Same as C103			
C133	Same as C118			
C134	Same as C125			
C135	Same as C103			
C136	Same as C103			
C137	Same as C125			
C138	Same as C118			
C139	Same as C103			
C140	Same as C103			
C141	Same as C118			
C142	Same as C125			

NOTE: There is a minimum billing charge of $3.00 for any one parts order. Prices will be furnished upon request.

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
C143	Same as C103			
C144	Same as C103			
C148	Same as C118			
C149	Same as C125			
C150	Same as C118			
C151	Same as C125			
C152	Same as C103			
C153	Same as C103			
C154	Same as C103			
C155	Same as C101			
C201	CAPACITOR, Fixed, ceramic, 4.7 UUF ±1 UUF 500V	12	N330A4.7±1.0UUF	3
C202	CAPACITOR, Fixed, paper, 0.001 UF ±20% 600V . .	18	109P10206	3
C203	CAPACITOR, Fixed, ceramic, 100 UUF ±20% 350V . .		GP1A100±20UUF	1
C204	Same as C103			
C205	CAPACITOR, Fixed, ceramic, 47 UUF ±10% 500V. . .	12	GP1A47±4.7UUF	3
C206	CAPACITOR, Fixed, paper, 0.1 UF ±20% 200V.	18	109P10402	1
C207	Same as C103			
C208	Same as C101			
C209	CAPACITOR, Fixed, ceramic, 22 UUF ±10% 500V. . .	12	GP1A22±2.2UUF	5
C210	CAPACITOR, Fixed, ceramic, 0.01 UF . . . . . +100 -20% 500V	12	ED-0.01	5
C211	Same as C103			
C212	Same as C101			
C213	Same as C103			
C214	CAPACITOR, Fixed, ceramic, 8 UUF ±0.5 UUF 500V	12	NPO±60A8±0.5UUF	1
C215	CAPACITOR, Fixed, ceramic, 27 UUF ±10% 500V. . .	12	GP1A27±2.7UUF	2
C216	Same as C101			
C217	CAPACITOR, Fixed, ceramic, 12 UUF ±10% 500V. . .	12	GP1A12±1.2UUF	4
C218	Same as C217			
C219	Same as C101			
C220	CAPACITOR, Fixed, ceramic, 82 UUF ±10% 500V. . .	12	GP1A82±8.2UUF	2
C221	Same as C101			
C222	CAPACITOR, Fixed, paper, 0.047 UF ±10% 200V . . .	17	109P47392	1
C225	CAPACITOR ASSEMBLY	14	3105-255	1
C228	CAPACITOR, Fixed, mica, 910 UUF ±1% 500V.	15	MCM20DF911F	1
C229	CAPACITOR, Fixed, mica, 62 UUF ±1% 500V	15	MCM20D620F	1
C230	CAPACITOR, Variable, ceramic, 7-45 UUF ±20% . . . 500V	12	503-27NPO7-45	3
C231	CAPACITOR, Fixed, mica, 82 UUF ±5% 500V			2
C232	CAPACITOR, Variable, ceramic, 4.5-25 UUF . . . . . ±20% 500V	12	503-27NPO4.5-25	2

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
C233	Same as C231			
C234	Same as C232			
C235	CAPACITOR, Variable, ceramic, 3-12 UUF ±20% . . . 500V	12	503-27NPO3-12	3
C236	CAPACITOR, Fixed, paper, 0.22 UF ±20% 400V	18	109P22404	1
C237	CAPACITOR, Fixed, paper, 0.022 UF ±20% 400V . . .	18	109P22304	1
C238	CAPACITOR, Fixed, paper, 0.0022 UF ±20% 400V . .	18	109P22204	1
C239	CAPACITOR, Fixed, mica, 220 UUF ±10% 500V			2
C240	CAPACITOR, Fixed, ceramic, 39 UUF ±10% 500V. . .	12	GP1A39±3.9UUF	2
C241	Same as C220			
C242	Same as C103			
C243	Same as C103			
C401	CAPACITOR, Variable, ceramic, 8-50 UUF	12	557-06N7508-50UUF	1
C402	CAPACITOR, Variable, ceramic, 5-25 UUF 350V . . .	12	557-06NPO5-25	2
C403	CAPACITOR, Fixed, ceramic, 100 UUF ±10% 500V . .			1
C404	Same as C402			
C405	Same as C103			
C406	Same as C209			
C407	Same as C205			
C408	CAPACITOR, Fixed, paper, 0.047 UF ±20% 400V . .	18	109P47304	3
C409	CAPACITOR, Fixed, paper, 0.0047 UF ±20% 400V . .	18	109P47204	1
C410	CAPACITOR, Fixed, ceramic, 470 UUF ±20% 500V . .	12	GP2A470±94UUF	1
C411	Same as C209			
C412	Same as C217			
C413	Same as C217			
C414	Same as C240			
C417	CAPACITOR ASSEMBLY	14	3105-254	1
C418	CAPACITOR, Fixed, mica, 430 UUF ±1% 500V	12	MCM20D431F	1
C419	CAPACITOR, Fixed, mica, 36 UUF ±5% 500V			1
C420	Same as C230			
C421	CAPACITOR, Fixed, mica, 39 UUF ±5% 500V			1
C422	Same as C235			
C423	Same as C103			
C424	Same as C239			
C425	Same as C210			
C426	Same as C209			
C427	Same as C205			
C428	Same as C101			
C429	Same as C209			
C501	Same as C230			
C502	Same as C201			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
C503	CAPACITOR, Fixed, paper, 0.01 UF ±20% 400V	18	109P10304	11
C504	CAPACITOR, Fixed, electrolytic, 6.25 UF +50 -20% . 300V	8	BBR6.25-300-2	1
C506	CAPACITOR, Variable, ceramic, 3-12 UUF 350V . . .	12	557-06NPO3-12UUF	4
C507	Same as C408			
C508	Same as C201			
C511	Same as C506			
C601	CAPACITOR, Fixed, electrolytic, 2 x 40 UF . . . . . +50 -10% 450V	18	TVL2764	1
C602	Same as C503			
C603	CAPACITOR, Fixed, electrolytic, 125 UF +100 -10% . 350V	18	TVL1638HKF	2
C604	Same as C503			
C605	CAPACITOR, Fixed, electrolytic, 3 x 10 UF . . . . . +50 -10% 450V	18	TVL3776	1
C606	CAPACITOR, Fixed, electrolytic, 125 UF . . . . . +50 -10% 450V	18	TVL-1760	1
C607	Same as C503			
C608	Same as C503			
C609	Same as C101			
C610	CAPACITOR, Fixed, electrolytic, 150 UF +100 -10% . 250V	18	TVL-1540	2
C611	Same as C610			
C612	Same as C503			
C613	Same as C101			
C614	Same as C603			
C615	Same as C503			
C616	Same as C503			
C617	Same as C503			
C618	Same as C210			
C619	CAPACITOR, Fixed, electrolytic, 2 x 40 UF . . . . . +100 -10% 250V	18	TVL-2520HKT-7	.1
C620	Same as C503			
C621	CAPACITOR, Fixed, ceramic, 0.02 UF GMV 150V . .	12	ED-0.02	1
C622	Same as C101			
C701	Same as C408			
C702	Same as C202			
C703	Same as C503			
C704	CAPACITOR, Fixed, electrolytic, 2 x 20 UF . . . . . +50 -10% 450V	18	TVL2755	1
C705	Same as C202			
C706	Same as C210			
C707	CAPACITOR, Fixed, paper, 0.0068 UF ±20% 3000V . .	18	184P682030	2
C708	CAPACITOR, Fixed, paper, 470 UUF ±20% 10,000V . .	18	184P4710100	2

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
C709	Same as C708			
C710	CAPACITOR, Fixed, paper, 0.0068 UF ±20% 5000V	18	184P682050	3
C711	Same as C707			
C715	Same as C101			
C716	CAPACITOR, Fixed, paper, 0.015 UF ±20% 3000V. . .	18	184P153030	3
C717	Same as C716			
C720	Same as C710			
C721	Same as C710			
C722	Same as C716			
C751	CAPACITOR, Fixed, mica, 330 UUF ±10% 500V			2
C752	Same as C751			
C753	Same as C215			
C754	Same as C103			
C1201	Same as C125			
C1202	CAPACITOR, Fixed, ceramic, 0.68 UUF ±20% 500V. .	19	GA-1	4
C1203	Same as C1202			
C1204	Same as C125			
C1205	CAPACITOR, Fixed, ceramic, 1.5 UUF ±0.25 UUF . . 500V	12	N330±250A1.5±0.25UUF	16
C1206	Same as C1205			
C1207	Same as C125			
C1208	CAPACITOR, Fixed, ceramic, 1.0 UUF ±0.2 UUF 500V	19	GA-2	1
C1209	Same as C125			
C1210	Same as C125			
C1211	Same as C125			
C1213	Same as C1202			
C1214	Same as C1202			
C1215	Same as C1205			
C1216	Same as C1205			
C1217	Same as C125			
C1218	Same as C125			
C1219	Same as C125			
C1220	Same as C125			
C1221	Same as C1205			
C1222	Same as C1205			
C1223	Same as C125			
C1224	Same as C125			
C1225	Same as C125			
C1226	Same as C125			
C1227	Same as C1205			
C1228	Same as C1205			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
C1229	Same as C125			
C1230	Same as C125			
C1231	Same as C125			
C1232	Same as C125			
C1233	Same as C1205			
C1234	Same as C1205			
C1235	Same as C125			
C1236	Same as C125			
C1237	Same as C125			
C1238	Same as C125			
C1239	Same as C1205			
C1240	Same as C1205			
C1241	Same as C125			
C1242	Same as C125			
C1243	Same as C125			
C1244	Same as C125			
C1245	Same as C1205			
C1246	Same as C1205			
C1247	Same as C125			
C1248	Same as C125			
C1249	Same as C125			
C1250	Same as C125			
C1251	Same as C1205			
C1252	Same as C1205			
C1255	Same as C125			
C1256	Same as C125			
C1257	Same as C125			
C1258	Same as C125			
C1259	Same as C125			
C1260	Same as C125			
C1261	Same as C125			
C1262	Same as C125			
C1263	Same as C125			
C1264	Same as C125			
C1265	Same as C125			
C1266	Same as C125			
C1267	Same as C125			
C1268	Same as C125			
C1269	Same as C125			
C1270	Same as C125			
C1271	Same as C125			
C1272	Same as C125			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
C1273	Same as C125			
C1274	Same as C125			
CR601	RECTIFIER, Metallic, 5-100 ma plates per leg	17	20M4482	1
CR602	RECTIFIER, Metallic, 4-250 ma plates per leg	17	16Q4481	1
CR603	RECTIFIER, Metallic, 4-500 ma plates per leg	17	16S4483	1
CR604	RECTIFIER, Metallic, 5-500 ma plates per leg	17	20S4485	1
CR605	RECTIFIER, Metallic, 4-250 ma plates per leg	17	20Q4484	1
DS101	LAMP, Glow, 60 VAC, 90 VDC 1/25 w		NE-2	8
DS103	Same as DS101			
DS501	LAMP, Glow, Special 75V 1/25 w	14	12270-42	2
DS502	Same as DS501			
DS601	LAMP, Incandescent, 6-8V 1.2 w 0.15 amp	13	47	3
DS602	Same as DS601			
DS603	Same as DS601			
F101	FUSE, Cartridge, 6.25 amps, 250V normal action .			1
L101	COIL, R.F., Variable, 1.8-3.9 UH	14	3320-160	2
L102	Same as L101			
L103	COIL, R.F., Variable, 0.3-0.55 UH	14	3320-161	2
L104	Same as L103			
L105	COIL, R.F., Fixed, 14 UH	14	3320-167	1
L106	COIL, R.F., Variable, 0.5-1 UH	14	3320-162	2
L107	Same as L106			
L108	COIL ASSEMBLY, R.F., Fixed, plate delay line . . .	14	3320-164	2
L109	COIL ASSEMBLY, R.F., Fixed, grid delay line	14	3320-163	2
L110	Same as L109			
L111	Same as L108			
L201	COIL, R.F., Fixed, 88 UH	14	3320-145	1
L202	COIL, R.F., Fixed, 1 UH	14	3320-148	1
L1201	COIL ASSEMBLY, R.F., Fixed, long delay line	14	3320-177	2
L1202	Same as L1201			
L1203	COIL ASSEMBLY, R.F., Fixed, short delay line . . .	14	3320-176	2
L1204	Same as L1203			
L1205	COIL, R.F., Variable, 0.9-1.6 UH	14	3320-169	2
L1206	Same as L1205			
R101	RESISTOR, Fixed, composition, 910 Ω ±5% 2 watt . . .	1	HB9115	1
R102	RESISTOR, Fixed, special, 500 Ω ±1% 1/2 watt	14	18577-169	2
R103	RESISTOR, Fixed, composition, 27 Ω ±10% 1/2 watt . .	1	EB2701	2
R104	RESISTOR, Fixed, W. W., 3K ±5% 5 watt	22	5X3000	1
R105	RESISTOR, Fixed, W.W., 10K ±5% 10 watt	22	1-3/4Z	1
R106	RESISTOR, Fixed, composition, 330 Ω ±10% 1/2 watt .	1	EB3311	2
R107	RESISTOR, Fixed, composition, 470K ±10% 1/2 watt .	1	EB4741	28
R108	RESISTOR, Variable, composition, 200 Ω ±20% 2 watt .			1

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R109	Same as R106			
R110	Same as R107			
R111	Same as R103			
R112	Same as R102			
R113	RESISTOR, Fixed, composition, 100 Ω ±10% 1 watt . .	1	GB1011	3
R114	Same as R113			
R115	RESISTOR, Fixed, composition, 47 Ω ±10% 1/2 watt . .	1	EB4701	21
R116	Same as R115			
R117	Same as R113			
R118	RESISTOR, Fixed, composition, 2200 Ω ±10% 1 watt . .	1	GB2221	1
R119	RESISTOR, Fixed, composition, 68K ±10% 1/10 watt .	1	TR6831	2
R120	RESISTOR, Fixed, composition, 47K ±10% 1/2 watt . .	1	EB4731	13
R121	RESISTOR, Fixed, W.W., 2.5K ±1% 5 watt	22	5X2500	1
R122	RESISTOR, Fixed, composition, 27K ±10% 2 watt . . .	1	HB2731	2
R123	Same as R122			
R124	Same as R119			
R125	Same as R120			
R126	RESISTOR, Variable, composition, 250K ±20% 2 watt .			1
R127	RESISTOR, Fixed, composition, 33 Ω ±10% 1/2 watt . .	1	EB3301	2
R128	Same as R127			
R129	Same as R107			
R130	RESISTOR, Fixed, W.W., 4500 Ω ±5% 8 watt			8
R131	RESISTOR, Fixed, W.W., 167 Ω ±5% 5 watt	22	Y167WL	1
R132	Same as R107			
R133	RESISTOR, Fixed, composition, 2K ±5% 1 watt	1	GB2025	1
R134	RESISTOR, Fixed, composition, 100 Ω ±10% 1/2 watt .	1	EB1011	32
R135	RESISTOR, Fixed, composition, 4.7K ±10% 2 watt . . .	1	HB4721	1
R136	RESISTOR, Fixed, wire wound, 30K ±5% 10 watt . . .	22	Z30,000WL	1
R137	RESISTOR, Fixed, composition, 150K ±10% 1/2 watt .	1	EB1541	6
R138	NOT USED			
R139	RESISTOR, Fixed, composition, 390K ±10% 1/2 watt .	1	EB3941	3
R140	RESISTOR, Fixed, composition, 680K ±10% 1/2 watt .	1	EB6841	2
R141	Same as R139			
R142	Same as R134			
R143	RESISTOR, Fixed, composition, 15K ±10% 2 watt . . .	1	HB1531	2
R144	Same as R205			
R145	RESISTOR, Fixed, composition, 1M ±10% 1/4 watt . .	1	CB1051	2
R146	RESISTOR, Special, 600 Ω (Paired to ±1/2% with R150) . . .	14	18577-171	1 pr
R147	RESISTOR, Fixed, composition, 220 Ω ±10% 1/4 watt .	1	CB2211	1
R148	RESISTOR, Fixed, composition, 47 Ω ±10% 1/4 watt . .	1	CB4701	1

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R149	RESISTOR, Fixed, composition, 150 Ω ±10% 1/4 watt .	1	CB1511	1
R150	Same as R146			
R151	Same as R145			
R152	RESISTOR, Fixed, composition, 8200 Ω ±10% 1/4 watt.	1	CB8221	2
R153	Same as R152			
R154	Same as R107			
R155	Same as R130			
R156	Same as R107			
R157	Same as R107			
R158	Same as R130			
R159	Same as R107			
R160	Same as R107			
R161	Same as R130			
R162	Same as R107			
R163	Same as R107			
R164	Same as R130			
R165	Same as R107			
R166	Same as R107			
R167	Same as R130			
R168	Same as R107			
R169	Same as R107			
R170	Same as R130			
R171	Same as R107			
R172	RESISTOR, Fixed, composition, 360 Ω ±5% 1/2 watt . .	1	EB3615	2
R173	Same as R172			
R174	RESISTOR, Fixed, W.W., 12K ±5% 8 watt			1
R175	RESISTOR, Fixed, W.W., 1K ±5% 5 watt	22	5X1000	1
R201	RESISTOR, Fixed, composition, 1M ±5% 1/2 watt . . .	1	EB1055	2
R202	RESISTOR, Fixed, composition, 390K ±5% 1/2 watt . .	1	EB3945	1
R203	RESISTOR, Fixed, composition, 100K ±10% 1/2 watt .	1	EB1041	20
R204	RESISTOR, Variable, composition, 50K ±20% 2 watt .			4
R205	RESISTOR, Fixed, composition, 1M ±10% 1/2 watt . .	1	EB1051	12
R206	Same as R203			
R207	Same as R107			
R208	RESISTOR, Fixed, composition, 4700 Ω ±10% 1 watt . .	1	GB4721	3
R209	Same as R208			
R210	Same as R115			
R211	Same as R115			
R212	RESISTOR, Fixed, composition, 33K ±10% 2 watt . . .	1	HB3331	3
R213	RESISTOR, Fixed, composition, 39K ±10% 2 watt . . .	1	HB3391	4
R214	RESISTOR, Variable, composition, (3 section). . . . . 2x100K ±20% 1/2 watt spdt sw			1

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R215	RESISTOR, Fixed, composition, 22K ±10% 1/2 watt . .	1	EB2231	3
R216	Same as R107			
R217	Same as R107			
R218	RESISTOR, Fixed, composition, 56K ±10% 1/2 watt . .	1	EB5631	2
R219	RESISTOR, Fixed, composition, 1.8M ±10% 1/2 watt .	1	EB1851	1
R221	RESISTOR, Fixed, composition, 1000 Ω ±10% 1/2 watt.	1	EB1021	23
R222	Same as R120			
R223	RESISTOR, Fixed, composition, 2700 Ω ±10% 1/2 watt.	1	EB2721	2
R224	Same as R120			
R225	Same as R115			
R226	RESISTOR, Fixed, composition, 22K ±10% 2 watt . . .	1	HB2231	6
R227	RESISTOR, Variable, composition, 500 Ω ±20% 2 watt .			1
R228	Same as R226			
R229	RESISTOR, Fixed, composition, 820 Ω ±10% 1/2 watt .	1	EB8211	1
R230	Same as R115			
R231	Same as R203			
R232	Same as R203			
R233	RESISTOR, Variable, composition, 100K ±20% 2 watt .			4
R234	Same as R201			
R235	Same as R107			
R236	Same as R205			
R237	Same as R134			
R238	RESISTOR, Fixed, composition, 220K ±10% 1/2 watt .	1	EB2241	2
R239	Same as R107			
R240	RESISTOR, Fixed, composition, 10K ±10% 1/2 watt . .	1	EB1031	6
R241	RESISTOR, Fixed, composition, 47K ±10% 1 watt . . .	1	GB4731	4
RS242	Same as R214			
R243	Same as R233			
R244	RESISTOR, Fixed, composition, 470K ±5% 1/2 watt . .	1	EB4745	1
R245	RESISTOR, Fixed, composition, 100K ±5% 1/2 watt . .	1	EB1045	1
R246	RESISTOR, Fixed, composition, 200K ±5% 1/2 watt . .	1	EB2045	1
R247	Same as R134			
R248	RESISTOR, Fixed, film, 95K ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	2
R249	RESISTOR, Fixed, film, 220K ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R250	Same as R134			
R251	Same as R226			
R252	RESISTOR, Fixed, composition, 3300 Ω ±10% 1 watt . .	1	GB3321	1
R253	RESISTOR, Fixed, composition, 2700 Ω ±10% 1 watt . .	1	GB2721	1
R254	Same as R115			
R255	Same as R115			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R256	RESISTOR, Fixed, composition, 56K ±5% 1 watt	1	GB5635	1
R257	Same as R115			
R258	RESISTOR, Fixed, composition, 39K ±5% 1 watt . . .	1	GB3935	2
R259	RESISTOR, Variable, composition, 2500 Ω ±20% 1/10 watt .	6	AO12-2500	1
R260	RESISTOR, Fixed, composition, 33K ±10% 1 watt . . .	1	GB3331	3
R261	Same as R221			
R262	Same as R120			
R263	RESISTOR, Fixed, composition, 270 Ω ±10% 1/2 watt .	1	EB2711	1
R264	Same as R134			
R265	RESISTOR, Fixed, W. W., 8000 Ω ±5% 5 watt	22	5X8000	2
R266	Same as R120			
R267	Same as R203			
R268	Same as R134			
R269	Same as R115			
R270	Same as R208			
R271	RESISTOR, Fixed, composition, 36K ±5% 1/2 watt. . .	1	EB3635	1
R272	Same as R205			
R273	Same as R240			
R274	Same as R205			
R275	RESISTOR, Fixed, composition, 1.8M ±5% 1/2 watt . .	1	EB1855	1
R276	Same as R221			
R279	RESISTOR, Fixed, film, 30M ±1% 2 watt			1
R280	RESISTOR, Fixed, film, 10M ±1% 1 watt			2
R281	Same as R280			
R282	RESISTOR, Fixed, film, 3M ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R283	RESISTOR, Fixed, film, 1M ±1% 1/2 watt			5
R284	Same as R283			
R285	RESISTOR, Fixed, film, 300K ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	2
R286	RESISTOR, Fixed, film, 100K ±1% 1/2 watt			3
R287	Same as R286			
R288	RESISTOR, Fixed, composition, 6800 Ω ±10% 1 watt . .	1	GB6821	1
R289	RESISTOR, Variable, composition, 15K ±20% 2 watt. .			1
R290	RESISTOR, Variable, composition, 500 Ω ±20% . . . . 1/10 watt	6	A-135-500	1
R292	Same as R226			
R293	Same as R226			
R294	Same as R226			
R295	RESISTOR, Fixed, composition, 1.5M ±10% 1/2 watt .	1	EB1551	7
R296	Same as R120			
R297	Same as R115			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R298	Same as R115			
R299	RESISTOR, Fixed, composition, 470 Ω ±10% 1/2 watt .	1	EB4711	1
R300	Same as R203			
R301	RESISTOR, Fixed, composition, 100K ±10% 1 watt. . .	1	GB1041	2
R302	RESISTOR, Fixed, composition, 4.7M ±10% 1/2 watt .	1	EB4751	7
R303	Same as R107			
R304	Same as R302			
R305	Same as R134			
R306	Same as R265			
R307	RESISTOR, Variable, composition, 2500 Ω ±20% 2 watt			2
R308	RESISTOR, Fixed, W.W., 4K ±5% 5 watt	22	5X4000	1
R401	RESISTOR, Fixed, film, 900K ±1% 1/2 watt			2
R402	RESISTOR, Fixed, film, 111K ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R403	Same as R115			
R404	Same as R283			
R405	RESISTOR, Variable, composition, (3 section) . . . . 2x100K, 15K ±20% 1/2 watt			1
R406	Same as R215			
R407	Same as R205			
R408	Same as R203			
R409	Same as R260			
R410	Same as R241			
R411	Same as R204			
R412	Same as R212			
R413	Same as R241			
R414	Same as R241			
R415A& B	Same as R405			
R416	Same as R134			
R417	Same as R134			
R418	RESISTOR, Fixed, composition, 3300 Ω ±10% 1/2 watt	1	EB3321	1
R419	Same as R212			
R420	Same as R203			
R421	RESISTOR, Fixed, composition, 270K ±10% 1/2 watt .	1	EB2741	3
R422	Same as R134			
R423	RESISTOR, Fixed, composition, 2200 Ω ±10% . . . . . 1/2 watt	1	EB2221	4
R427	Same as R203			
R428	RESISTOR, Fixed, composition, 27K ±10% 1/2 watt . .	1	EB2731	4
R429	Same as R120			
R430	Same as R134			
R431	Same as R134			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R432	RESISTOR, Fixed, composition, 22K ±10% 1 watt . . .	1	GB2231	1
R436	Same as R221			
R437	Same as R205			
R438	RESISTOR, Fixed, composition, 10K ±5% 1 watt	1	GB1035	1
R439	Same as R134			
R440	Same as R134			
R441	Same as R258			
R442	RESISTOR, Fixed, composition, 33K ±5% 1 watt	1	GB3335	1
R443	Same as R134			
R444	RESISTOR, Fixed, composition, 15K ±5% 2 watt . . .	1	HB1535	1
R445	Same as R423			
R446	Same as R120			
R447	Same as R223			
R448	Same as R120			
R449	Same as R203			
R450	Same as R134			
R451	Same as R240			
R452	Same as R134			
R453	Same as R143			
R454	RESISTOR, Variable, composition, 10K ±20% 2 watt. .			2
R456	RESISTOR, Fixed, composition, 12K ±10% 2 watt . . .	1	HB1231	1
R457	Same as R120			
R458	Same as R283			
R460	RESISTOR, Fixed, film, 600K ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R462	RESISTOR, Fixed, film, 400K ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R466	RESISTOR, Fixed, composition, 220K ±10% 2 watt . .	1	HB2241	1
R467	Same as R203			
R468	Same as R295			
R471	RESISTOR, Fixed, composition, 6800 Ω ±10% 1/2 watt . . .	1	EB6821	1
R472	Same as R134			
R473	Same as R233			
R474	Same as R107			
R475	Same as R203			
R476	Same as R120			
R477	Same as R240			
R478	RESISTOR, Fixed, composition, 15K ±10% 1/2 watt . .	1	EB1531	1
R479	Same as R134			
R480	RESISTOR, Fixed, W.W., 10K ±5% 5 watt	22	5X10,000	1
R481	RESISTOR, Variable, W.W., 10K ±10% 2 watt			2

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R482	RESISTOR, Variable, 30K 3 watt ±1% Linearity	4	AR30KL.1	1
R486	Same as R134			
R487	RESISTOR, Fixed, composition, 3900 Ω ±10% . . . . . 1/2 watt	1	EB3921	1
R488	Same as R248			
R489	Same as R134			
R490	RESISTOR, Fixed, film, 150K ±1% 1/2 watt			2
R491	Same as R213			
R492	RESISTOR, Fixed, composition, 5600 Ω ±10% . . . . . 1/2 watt	1	EB5621	1
R493	Same as R240			
R494	Same as R134			
R495	Same as R421			
R496	Same as R115			
R497	Same as R221			
R498	Same as R215			
R499	RESISTOR, Fixed, composition, 22M ±10% 1/2 watt . .	1	EB2261	1
R501	Same as R283			
R502	RESISTOR, Fixed, film, 1.23M ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R503	Same as R134			
R504	Same as R301			
R505	Same as R423			
R507	Same as R107			
R508	Same as R302			
R509	Same as R134			
R510	RESISTOR, Fixed, composition, 560K ±10% 1/2 watt .	1	EB5641	2
R511	RESISTOR, Variable, composition, (2 section) . . . . 2x500K ±20% 1/2 watt			1
R512	Same as R511			
R513	Same as R490			
R514	RESISTOR, Fixed, composition, 680 Ω ±10% . . . . . 1/2 watt	1	EB6811	1
R515	Same as R134			
R516	RESISTOR, Fixed, film, 10.1K ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R517	RESISTOR, Fixed, composition, 82K ±10% 1/2 watt . .	1	EB8231	1
R518	Same as R238			
R519	RESISTOR, Variable, composition, 25K ±20% 2 watt .			1
R520	RESISTOR, Wound, 25K ±1% 3 watt	14	18577-155	2
R521	Same as R115			
R522	Same as R115			
R523	Same as R423			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R524	RESISTOR, Fixed, composition, 390 ±10% . . . . . 1/2 watt	1	EB3911	1
R525	Same as R115			
R526	Same as R115			
R527	Same as R134			
R528	Same as R204			
R529	Same as R307			
R530	RESISTOR, Fixed, composition, 8.2K ±5% 1 watt . . .	1	GB8225	2
R531	Same as R530			
R533	Same as R520			
R534	Same as R134			
R535	Same as R213			
R536	Same as R213			
R537	Same as R107			
R538	RESISTOR, Fixed, composition, 820K ±10% . . . . . 1/2 watt	1	EB8241	2
R539	Same as R822			
R540	Same as R107			
R601	RESISTOR, Fixed, composition, 10 Ω ±10% 1/2 watt . .	1	EB1001	2
R602	RESISTOR, Fixed, composition, 120K ±10% 1/2 watt .	1	EB1241	1
R603	Same as R428			
R604	Same as R137			
R605	Same as R205			
R606	Same as R130			
R607	RESISTOR, Fixed, film, 220K ±1% 1 watt			2
R608	RESISTOR, Fixed, film, 720K ±1% 1 watt			1
R609	RESISTOR, Fixed, composition, 10 Ω ±10% 1 watt . . .	1	GB1001	5
R610	Same as R609			
R611	RESISTOR, Fixed, composition, 82K ±10% 2 watt . . .	1	HB8231	1
R612	Same as R510			
R613	Same as R120			
R614	Same as R205			
R615	Same as R295			
R616	Same as R221			
R617	RESISTOR, Fixed, composition, 2.2M ±10% 1/2 watt .	1	EB2251	4
R618	RESISTOR, Fixed, W.W., 2400 Ω ±5% 20 watt		T2400WL	2
R619	Same as R618			
R620	RESISTOR, Fixed, special, 236K ±1% 1 watt		1252	1
R621	RESISTOR, Fixed, special, 100K ±1% 1/2 watt		1195	1
R622	RESISTOR, Fixed, composition, 10 Ω ±10% 2 watt . . .	1	HB1001	1
R623	Same as R421			
R624	Same as R218			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R625	Same as R295			
R626	RESISTOR, Fixed, W.W., 2000 Ω ±5% 8 watt			1
R627	Same as R295			
R628	Same as R617			
R629	RESISTOR, Fixed, composition, 180K ±10% 1/2 watt	1	EB1841	1
R630	RESISTOR, Fixed, composition, 82K ±10% 1 watt . . .	1	GB8231	1
R631	Same as R221			
R632	Same as R617			
R633	RESISTOR, Fixed, film, 333K ±1% 1 watt			2
R634	Same as R607			
R635	Same as R137			
R636	Same as R609			
R637	Same as R120			
R638	RESISTOR, Fixed, composition, 39K ±10% 1/2 watt . .	1	EB3931	2
R639	Same as R140			
R640	Same as R295			
R641	RESISTOR, Fixed, W.W., 3000 Ω ±5% 11 watt	22	RW29V302WL	1
R642	Same as R633			
R643	RESISTOR, Fixed, film 490K ±1% 1 watt			1
R644	RESISTOR, Fixed, W.W., 750 Ω ±5% 11 watt	22	RW29V751	1
R645	Same as R203			
R646	Same as R609			
R647	Same as R609			
R648	Same as R428			
R649	RESISTOR, Fixed, composition, 68K ±10% 1/2 watt . .	1	EB6831	2
R650	Same as R137			
R651	RESISTOR, Fixed, composition, 15K ±10% 1 watt . . .	1	GB1531	2
R652	Same as R651			
R653	Same as R221			
R654	Same as R221			
R655	Same as R205			
R656	RESISTOR, Fixed, W.W., 1K ±5% 25 watt	22	25F1000	1
R657	RESISTOR, Fixed, composition, 10K ±10% 2 watt . . .	1	HB1031	1
R658	RESISTOR, Fixed, composition, 2.7M ±10% 1/2 watt .	1	EB2751	3
R659	Same as R658			
R660	RESISTOR, Fixed, composition, 33K ±10% 1/2 watt . .	1	EB3331	1
R661	Same as R203			
R662	Same as R107			
R663	Same as R203			
R664	Same as R221			
R665	Same as R203			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R666	RESISTOR, Fixed, Film, 68K ±1% 1 watt			1
R667	Same as R481			
R668	Same as R601			
R669	RESISTOR, Fixed, film, 50K ±1% 1 watt			1
R670	RESISTOR, Variable, W.W., 50 Ω ±10% 2 watt			1
R671	RESISTOR, Fixed, composition, 12 Ω ±10% 1 watt . . .	1	GB1201	1
R701	Same as R221			
R702	RESISTOR, Fixed, composition, 56K ±10% 2 watt . . .	1	HB5631	1
R703	Same as R203			
R704	Same as R107			
R705	Same as R221			
R706	RESISTOR, Variable, composition, 2M ±20% 2 watt . .			1
R707	Same as R617			
R708	Same as R302			
R709	Same as R302			
R710	Same as R302			
R711	RESISTOR, Fixed, composition, 390 Ω ±10% 2 watt . .	1	HB3911	1
R718	Same as R221			
R719	Same as R302			
R720	Same as R115			
R721	Same as R134			
R722	RESISTOR, Fixed, composition, 68K ±10% 2 watt . . .	1	HB6831	1
R723	RESISTOR, Fixed, composition, 2.2M ±10% 2 watt . .	1	HB2251	2
R724	Same as R723			
R725	RESISTOR, Variable, composition, 2M ±20% 1/2 watt .	6	HV POT	1
R726	RESISTOR, Fixed, composition, 1M ±10% 2 watt . . .	1	HB1051	1
R727	Same as R240			
R728	Same as R428			
R729	Same as R205			
R730	Same as R204			
R731	Same as R233			
R732	Same as R203			
R733	Same as R137			
R735	Same as R285			
R736	Same as R401			
R737	Same as R115			
R738	RESISTOR, Fixed, composition, 22K ±5% 1 watt	1	GB2235	2
R739	RESISTOR, Fixed, composition, 7.5K ±5% 1/2 watt . .	1	EB7525	1
R740	RESISTOR, Fixed, film, 995K ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R741	RESISTOR, Fixed, film, 750K ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R742	Same as R115			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R743	Same as R738			
R744	RESISTOR, Fixed, composition, 6800 Ω ±5% . . . . . 1/2 watt	1	EB6825	1
R745	RESISTOR, Variable, composition, 2.5M ±20% . . . . 2 watt			1
R746	RESISTOR, Fixed, composition, 4.7M ±5% 2 watt . .	1	HB4755	2
R747	RESISTOR, Fixed, composition, 3.3M ±5% 2 watt . .	1	HB3355	1
R748	RESISTOR, Variable, composition, 1M ±20% 1/2 watt.	6	HVPOT	1
R749	Same as R205			
R750	Same as R746			
R751	Same as R137			
R751	RESISTOR, Fixed, composition, 3.9M ±5% 2 watt. . .	1	HB3955	1
R752	Same as R221			
R752	Same as R203			
R753	RESISTOR, Fixed, composition, 3.3M ±10% 1/2 watt .	1	EB3351	1
R754	Same as R658			
R755	Same as R221			
R756	Same as R649			
R757	Same as R260			
R758	Same as R454			
R759	Same as R203			
R760	Same as R295			
R761	Same as R134			
R762	RESISTOR, Fixed, film 9500 Ω ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R763	RESISTOR, Fixed, film 6370 Ω ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R764	RESISTOR, Fixed, film 2100 Ω ±1% 1/2 watt			1
R765	RESISTOR, Fixed, film 1020 Ω ±1% 1/2 watt			1
R766	RESISTOR, Fixed, film 610 Ω ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R767	RESISTOR, Fixed, film 200 Ω ±1% 1/2 watt			1
R768	RESISTOR, Fixed, film 100 Ω ±1% 1/2 watt			2
R769	RESISTOR, Fixed, film 60 Ω ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R770	RESISTOR, Fixed, film 40 Ω ±1% 1/2 watt	10 21	DC1/2A CD1/2MR	1
R771	Same as R286			
R772	Same as R768			
R773	Same as R134			

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
R774	RESISTOR, Wound, special, 1/4 Ω	14	18577-156	1
R1201	Same as R221			
R1202	Same as R221			
R1203	Same as R221			
R1204	Same as R221			
R1205	Same as R221			
R1206	Same as R221			
R1207	Same as R221			
R1208	Same as R221			
S602	SWITCH, Thermostatic, overheat safety switch . .			1
S603	TUBE, Thermal time delay	2	6NO45T	1
V101	ELECTRON TUBE, Type 7733, paired	14	20877-21	1 pr
V102	Same as V101			
V103	ELECTRON TUBE, Type 6DJ8, paired		6DJ8	1 pr
V104	Same as V103			
V105	ELECTRON TUBE, Type 6DK6	23	6DK6	14
V106	Same as V105			
V107	ELECTRON TUBE, Type 6DJ8	3	6D48	11
V108	ELECTRON TUBE, Type 12AU7		12AU7	3
V109	Same as V105			
V110	Same as V105			
V111	Same as V105			
V112	Same as V105			
V113	Same as V105			
V114	Same as V105			
V115	Same as V105			
V116	Same as V105			
V117	Same as V105			
V118	Same as V105			
V119	Same as V105			
V120	Same as V105			
V201	ELECTRON TUBE, Type 6DJ8, selected	14	20877-20	2

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
V202	ELECTRON TUBE, Type 6U8	20	6U8	8
V203	Same as V202			
V204	Same as V202			
V205	Same as V201			
V206	ELECTRON TUBE, Type 12BY7	5	12BY7	1
V207	Same as V107			
V208	ELECTRON TUBE, Type 6AL5	16	6AL5	1
V209	ELECTRON TUBE, Type 6AU6	16	6AU6	8
V210	Same as V107			
V211	Same as V107			
V212	ELECTRON TUBE, Type 6CL6	16		2
V401	Same as V108			
V402	Same as V107			
V403	Same as V202			
V404	Same as V107			
V405	Same as V107			
V406	Same as V202			
V407	Same as V107			
V408	ELECTRON TUBE, Type 12AL5	16	12AL5	1
V409	ELECTRON TUBE, Type 12AU6	20	12AU6	1
V411	Same as V209			
V412	Same as V209			
V413	Same as V202			
V414	Same as V202			
V501	ELECTRON TUBE, Type 6BA8	20	6BA8	1
V502	Same as V107			
V503	ELECTRON TUBE, Type DJ8 selected and paired . .	14	20877-22	1 pr
V504	Same as V212			
V505	Same as V503			
V601	ELECTRON TUBE, Type 12B4	13	12B4	4
V602	Same as V209			
V603	ELECTRON TUBE, Type 6080		6080/6AS7GA	2
V604	Same as V209			
V605	Same as V603			
V606	Same as V209			
V607	ELECTRON TUBE, Type 12AX7		12AX7	2

REF SYMBOL	NAME AND DESCRIPTION	MFR	MFR PART NO. OR TYPE NO.	QTY
V608	Same as V209			
V609	Same as V601			
V610	Same as V601			
V611	Same as V601			
V612	Same as V209			
V613	ELECTRON TUBE, Type 5651	16	5651	1
V614	Same as V607			
V701	ELECTRON TUBE, Type 6AU5	16	6AU5	1
V702	Same as V108			
V703	ELECTRON TUBE, Type 5642	20	5642	5
V704	Same as V703			
V705	Same as V703			
V706	Same as V703			
V707	Same as V703			
V708	Same as V107			
V709	CATHODE RAY TUBE, Type 5BHP2	11	5BHP2	1
V710	Same as V107			
V751	Same as V202			
VR201	Same as DS101			
VR202	Same as DS101			
VR401	Same as DS101			
VR402	Same as DS101			
VR501	Same as DS101			